

# b-CANCubeMini Sealed

Compact controller with 3 CAN interfaces

## b-CANCubeMini Sealed

### Product Overview

The universal usable compact controller is equipped with a performant 32-Bit Microcontroller and offers a flexible I/O configuration. b-CANCubeMini Sealed was designed especially for the outdoor use in mobile machines and vehicles.

#### Bus communication

Three CAN-Interfaces e.g. for the connection to various motor control units or CAN control interfaces by b-plus.

Besides CAN there are two serial RS232-Interfaces and one RS485 available.

#### Multifunctional inputs and outputs

Twelve variable parametrizable inputs and outputs offer the flexibility to be adapted to the particular application. The clamp 15 pin enables a time delayed shutdown of the controller directly controlled from the application.

#### Robust mechanical housing

A proven housing enables an IP grade up to IP69k.

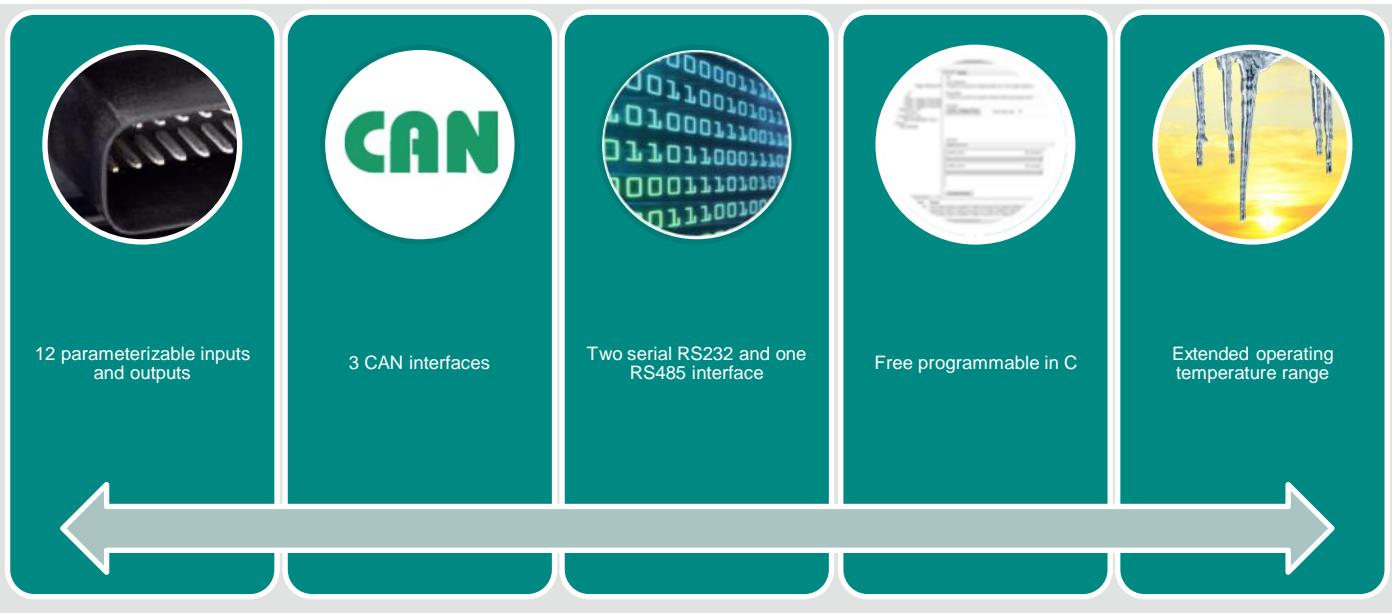
#### Free programmable and parametrizable

The controller is programmable in C. With an userfriendly API it is easy to start programming.

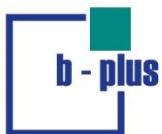


Illustration 1: b-CANCubeMini Sealed

### Highlights



Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. ■ Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. ■ Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. ■ Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. ■ Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. © b-plus GmbH • May 20 • Version: 1.3



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## Technical data

<b>Operating temperature</b>	-40 ... +85°C
<b>Protection Class</b>	IP 67 / IP 69K
<b>Weight</b>	0,180 kg
<b>Qualification</b>	CE / E-Mark
<b>Dimensions</b>	128 x 94 x 41 mm (WxHxD)
<b>Housing</b>	plastic, black
<b>Mounting</b>	Two 7mm mounting straps
<b>Bus interfaces</b>	3 CAN-Bus (High-Speed) according to ISO 11898-2 2 serial RS232 (RxTxD, TxTxD, GND) 1 RS485 (A, B)
<b>Power supply</b>	8 ... 32 V DC
<b>Processor</b>	CORTEX M4 32bit, 100MHz
<b>Memory</b>	1,5MB Flash, 320kB RAM, 16kB FRAM

## Configuration table

	Function	
<b>6 x Inputs</b>	Voltage 0 .. 10 V	✓
	Voltage 0 .. 32 V	✓
	Current 0 .. 20 mA	✓
	Frequency (<= 30kHz)	✓
	Resistor (<= 5 kOhm)	✓
	Digital (high / low switching)	✓
<b>6 x Outputs</b>	Digital (high switching)	✓
	PWM output (20... 250 Hz)	✓
	Current regulated output (accuracy 2%)	✓
	▪ Protection against short circuit and excess temperature	
	▪ Diagnostic capability max. 2A per output	

## Order-no.

## Name

B20300-CMS-001-0001	b-CANCubeMini Sealed
B20300-CMS-000-C001	b-CANCubeMini Connection-Set
B20300-CMS-001-S302	b-CANCubeMini Sealed Starter-Set

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